

Wierzbicka, Magdalena, Ph. D.

GENERAL INFORMATION



Postdoctoral Fellow

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ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2015-2017	Master Studies, Organic Chemistry, Faculty of Chemistry, University of Wrocław
2012-2015	Bachelor Studies, Biological Chemistry, Faculty of Chemistry, University of Wrocław

SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
2017-2022	Doctoral Studies, Chemical Sciences, Faculty of Chemistry, University of Wrocław
2017	Erasmus+ Research Project and Traineeship, French-Italian Interdepartmental Laboratory of Peptide and Protein Chemistry and Biology, University of Florence, Italy

PROFESSIONAL EXPERIENCE

Year(s)	Experience
Since 2024	Postdoctoral Fellow, Department of Clinical Pharmacology and Pharmacoepidemiology, Heidelberg University Hospital
2022-2024	Postdoctoral Fellow, Laboratory for the Analysis of Medicines GMP, CIRM, University of Liège, Belgium
05.2022	Internship in Biosystem Chemistry Group, High School of Biotechnology, University of Strasbourg, France, SSHN Campus France program, French Government Scholarship (BGF)
05.2022	Internship in Protein Synthesis and Biorthogonal Chemistry Research Group, Centre of Biomolecular Physics, CNRS-Orléans, France, financed by the PROM program, Polish National Agency for Academic Exchange

COORDINATION OF SCIENTIFIC NETWORKS

2020-2022	Principal Investigator in the Grant Preludium 18 from Polish National Science Centre; Project: Application of N-[2-thioethyl]glycine analogues in orthogonal cleavage of peptides from solid support
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SELECTED PUBLICATIONS

1. Dechenne, J., Wierzbicka, M., Krimou, R., El Aakchioui, A., Malo Pueyo, J., Messens, J., Fillet, M., Spillier, Q., & Frédérick, R. Examining Arginase-1 Trimerization Uncovers a Promising Allosteric Site for Inhibition. **Journal of Medicinal Chemistry**, 2025, 68(2), 1433–1445.

2. Wierzbicka, M., Waliczek, M., Dziadecka, A., & Stefanowicz, P., One-Pot Cyclization and Cleavage of Peptides with N-Terminal Cysteine via the N,S-Acyl Shift of the N-2-[Thioethyl]glycine Residue, **The Journal of organic chemistry**, 2021, 86(17), 12292–12299
3. Fedorowicz, J.*, Wierzbicka, M.*, Cebrat, M., Wiśniewska, P., Piątek, R., Zalewska-Piątek, B., Szewczuk, Z., Sączewski, J., Application of Safirinium N-Hydroxysuccinimide Esters to Derivatization of Peptides for High-Resolution Mass Spectrometry, Tandem Mass Spectrometry, and Fluorescent Labeling of Bacterial Cells, **International Journal of Molecular Sciences**, 2020; 21(24):9643.
4. Kijewska, M., Nuti, F., Wierzbicka, M., Waliczek, M., Ledwoń, P., Staśkiewicz, A., Real-Fernandez, F., Sabatino, G., Rovero, P., Stefanowicz, P., et al. An Optimised Di-Boronate-ChemMatrix Affinity Chromatography to Trap Deoxyfructosylated Peptides as Biomarkers of Glycation. **Molecules**. 2020; 25(3):755.
5. Fedorowicz, J., Cebrat, M., Wierzbicka, M., Wiśniewska, P., Jalińska, A., Dziomba, S., ... & Sączewski, J., Synthesis and evaluation of dihydro-[1, 2, 4] triazolo [4, 3-a] pyridin-2-ium carboxylates as fixed charge fluorescent derivatization reagents for MEKC and MS proteomic analyses, **Journal of Molecular Structure**, 2020, 1217, 128426.
6. Waliczek, M., Wierzbicka, M., Arkuszewski, M., Kijewska, M., Jaremko, Ł., et al. Attempting to synthesize lasso peptides using high pressure. **PLOS ONE**, 2020, 15(6): e0234901.
7. Setner, B., Wierzbicka, M., Jerzykiewicz, L., Lisowski, M., & Szewczuk, Z. The unexpected racemization and hydrogen–deuterium exchange of the hydrogen at the α -carbon of proline analogs containing the 5-azoniaspiro [4.4] nonyl-group, **Organic & Biomolecular Chemistry**, 2018, 16(5), 825-831.
8. Wierzbicka M, Setner B, Szewczuk Z, Analysis for trace amounts of analytes by electrospray mass spectrometry, **Acta Physica Polonica B**, 2016, 9, 345-350.